

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/518,642 Confirmation No. : 2849

First Named Inventor : Mitsuhiro YUASA Filed : December 20, 2004

TC/A.U. : 2811

Examiner

Docket No. : 101249.55749US

Customer No. : 23911

Title : Mems Array, Manufacturing Method Thereof, and Mems

Device Manufacturing Method Based on the Same

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R § \$ 1.97 AND 1.98

## Mail Stop AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, the attached Form PTO-1449 lists documents which the Examiner may deem relevant to patentability of the claims of the above-identified application.

## I. Time Period of Submission

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This Information Disclosure Statement is submitted:

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in later than three months from the application's ming date
or 2) before the mailing date of the first Office Action on the merits (whichever is
later) or 3) before a first Office Action after the filing of a Request for Continued
Examination, and therefore no statement under 37 C.F.R. § 1.97(e) or fee under
37 C.F.R.§ 1.17(p) is required.
2) after the later of three months from the application's filing
date and the mailing date of the first Office Action on the merits, but before a
Final Office Action, a Notice of Allowance, or an action closing prosecution (Ex
parte Quayle), (whichever is earlier), and therefore Applicant is filing
concurrently herewith:
a Statement under 37 C.F.R. § 1.97(e); or



a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p).

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Attorney Docket: 101249.55749US 3) after either a Final Office Action or a Notice of Allowance, but before payment of the Issue Fee, and therefore Applicant is submitting herewith: a Statement under 37 C.F.R. § 1.97(e); and a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p). II. Statement Under 37 C.F.R. § 1.97(e) I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or I hereby state that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making a reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; or III. Statement under 37 C.F.R. § 1.704(d) I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. IV. Submission of Non-English Language Documents The following is a concise explanation of relevance of the non-English language documents listed in the attached Form PTO-1449: The relevance of document(s) \_\_\_\_\_ to the subject matter of the present invention is/are provided in the specification of the above-identified application. Corresponding foreign orinternational document AB-AD, together with an English-language version (if not already in English) of that portion of the report indicating the degree of relevance found by the foreign office is submitted.

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is noted on Form PTO-1449.

English language family member publication of document AB

Serial No. 10/518,642 Attorney Docket: 101249.55749US

 $\boxtimes$ English language abstracts are submitted for documents AB-AD. English translation(s) of the foreign language document(s) is/are submitted herewith. Applicant submits the following explanations: V. Continuations/Divisionals Documents \_\_\_\_\_ were of record in parent application Serial No. , filed \_\_\_\_\_, from which this application claims benefit. As provided in 37 C.F.R. §1.98(d), copies of the documents are not being provided since they were previously submitted to or cited by the United States Patent and Trademark Office in the afore-mentioned parent application. The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. If necessary, this paper should be considered as an authorization to charge Deposit Account 05-1323, Attorney Docket No.: 101249.55749US, for the fee set forth in 37 C.F.R. § 1.17(p). Respectfully submitted, May 9, 2006 Jeffrey Registration No. 32,169 CROWELL & MORING LLP Intellectual Property Group P.O. Box 14300

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Washington, DC 20044-4300 Telephone No.: (202) 624-2500 Facsimile No.: (202) 628-8844

JDS:pct

PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO		Complete if Known				
				Application Number	10/518,642	
l	INFORMATION D	ISCLOSU	RE	Filing Date	December 20, 2004	
STATEMENT BY APPLICANT			NT	First Named Inventor	Mitsuhiro YUASA	
				Art Unit	2811	
	(use as many sheets	as necessary)		Examiner Name		
Sheet	1	of	2	Attorney Docket Number	101249.55749US	

U.S. PATENT DOCUMENTS						
Examiner Initials'	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US-				
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		FOREIG	N PATENT DOC	UMENTS		
Examiner Initials'	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5</sup> (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>e</sub>
	AA	EP 1 093 143 A1	04-18-2001	Lucent Technologies Inc		
	AB	JP 2001-198897 A	07-24-2001	Lucent Technologies Inc	See AA above	ABS
	AC	JP 2000-183290 A	06-30-2000	NEC Corp		ABS
	AD	JP 2001-266727 A	09-28-2001	NEC Corp NEC Tohoku Ltd		ABS
<u> </u>						
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Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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number.

Complete if Known Substitute for form 1449B/PTO Application Number 10/518,642 Filing Date December 20, 2004 INFORMATION DISCLOSURE First Named Inventor Mitsuhiro YUASA STATEMENT BY APPLICANT Art Unit 2811 Examiner Name (use as many sheets as necessary) Sheet 2 2 Attorney Docket Number 10249.55749US of

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
	AE	International Search Report dated October 7, 2003				
Examiner Signature	Τ	Date Considered				

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.